



ESR14 - IBM Israel (Chen Yanover)

Summary

ESR14 will develop and apply causal inference methods to high dimensional healthcare data with Chen Yanover at the Healthcare Informatics Department in IBM Research - Haifa, Israel. See <http://bit.ly/PHDhealthcare> and <http://ibm.biz/ML4HcLS> for more details.

Supervisor: Dr. Chen Yanover
Availability: This position is available.
Offered by: IBM Israel
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

The Marie Curie Innovative Training Network "Machine Learning Frontiers in Precision Medicine" (MLFPM) brings together leading European research institutes in machine learning and statistical genetics, both from the private and public sector, to train 14 early stage researchers. These scientists will develop and apply machine learning methods to health data. The goal is to reveal new insights into disease mechanisms and therapy outcomes, and to exploit the findings for precision medicine, which hopes to offer personalized preventive care and therapy selection for each patient.

Besides working on their project at their home institutions, the researchers will participate in network-wide training events like summer schools and retreats. Moreover, they will conduct two secondments of three months each at other network partners.

Applicants with a background in Computer Science, Mathematics, Engineering, Medicine, Biology or related fields are encouraged to apply. We expect that applicants hold a university degree that qualifies them for doctoral studies at their recruiting organization.

MLFPM is striving for diversity. In particular, we are committed to increase the percentage of female scientists and therefore especially encourage them to apply.

ESR14 will develop and apply causal inference methods to high dimensional healthcare data with Chen Yanover at the Healthcare Informatics Department in IBM Research - Haifa, Israel.

See <http://bit.ly/PHDhealthcare> and <http://ibm.biz/ML4HcLS> for more details.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

All researchers will be enrolled in PhD programs, so they need to have a university degree that qualifies for PhD studies at the organization they apply to.

Candidates with a biological or medical background, without or with little mathematical background, are also encouraged to apply. Upon recruitment, mathematical preparation plans will be organized for these candidates where needed.

Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.



Recruitment process

The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/15> or scan the the code on the left with your smartphone.



ESR13 - Qlucore (Magnus Fontes)

Summary

ESR13 will work on "Visualization of Deep Learning on Biomedical Data for Improved Interpretability" with Magnus Fontes at Qlucore in Lund, Sweden.

Availability: This position is available.
Offered by: Qlucore
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

The Marie Curie Innovative Training Network "Machine Learning Frontiers in Precision Medicine" (MLFPM) brings together leading European research institutes in machine learning and statistical genetics, both from the private and public sector, to train 14 early stage researchers. These scientists will develop and apply machine learning methods to health data. The goal is to reveal new insights into disease mechanisms and therapy outcomes, and to exploit the findings for precision medicine, which hopes to offer personalized preventive care and therapy selection for each patient.

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ESR13 will work on "Visualization of Deep Learning on Biomedical Data for Improved Interpretability" with Magnus Fontes at Qlucore in Lund, Sweden. For more information, please visit <https://www.qlucore.com/vacancies>.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

All researchers will be enrolled in PhD programs, so they need to have a university degree that qualifies for PhD studies at the organization they apply to.

Candidates with a biological or medical background, without or with little mathematical background, are also encouraged to apply. Upon recruitment, mathematical preparation plans will be organized for these candidates where needed.

Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/14> or scan the the code on the left with your smartphone.



ESR12 - University Paris Diderot (Florence Demenais)

Summary

ESR12 will work on "Integration of multi-omics data and disease-related phenotypes for better disease risk prediction" with Florence Demenais at the University Paris Diderot, in Paris, France.

Supervisor: Prof. Dr. Florence Demenais
Availability: This position is available.
Offered by: Université Paris Diderot - Paris 7
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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Applicants with a background in Computer Science, Mathematics, Engineering, Medicine, Biology or related fields are encouraged to apply. We expect that applicants hold a university degree that qualifies them for doctoral studies at their recruiting organization.

MLFPM is striving for diversity. In particular, we are committed to increase the percentage of female scientists and therefore especially encourage them to apply.

ESR12 will work on "Integration of multi-omics data and disease-related phenotypes for better disease risk prediction" with Florence Demenais at the University Paris Diderot, in Paris, France.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

All researchers will be enrolled in PhD programs, so they need to have a university degree that qualifies for PhD studies at the organization they apply to.

Candidates with a biological or medical background, without or with little mathematical background, are also encouraged to apply. Upon recruitment, mathematical preparation plans will be organized for these candidates where needed.

Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



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To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/13> or scan the the code on the left with your smartphone.



ESR11 - ARMINES (Chloé-Agathe Azencott)

Summary

ESR11 will work on learning from multi-modal data to improve cancer treatment with Chloé-Agathe Azencott at ARMINES/Mines ParisTech in Paris, France. For a more detailed description, see: http://cazencott.info/dotclear/public/offers/phd_proposal_mlfpm_esr11.pdf

Supervisor: Dr. Chloe-Agathe Azencott
Availability: This position is available.
Offered by: ARMINES
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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Besides working on their project at their home institutions, the researchers will participate in network-wide training events like summer schools and retreats. Moreover, they will conduct two secondments of three months each at other network partners.

Applicants with a background in Computer Science, Mathematics, Engineering, Medicine, Biology or related fields are encouraged to apply. We expect that applicants hold a university degree that qualifies them for doctoral studies at their recruiting organization.

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ESR11 will work on learning from multi-modal data to improve cancer treatment with Chloé-Agathe Azencott at ARMINES/Mines ParisTech in Paris, France.

For a more detailed description, see: http://cazencott.info/dotclear/public/offers/phd_proposal_mlfpm_esr11.pdf

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

All researchers will be enrolled in PhD programs, so they need to have a university degree that qualifies for PhD studies at the organization they apply to.

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Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.



Recruitment process

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ESR10 - UC3M (Antonio Artés)

Summary

ESR10 will work on "Personalized health trajectories" with Antonio Artés at Universidad Carlos III de Madrid in Madrid, Spain.

Supervisor: Antonio Artés Rodríguez
Availability: This position is available.
Offered by: Universidad Carlos III de Madrid
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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Applicants with a background in Computer Science, Mathematics, Engineering, Medicine, Biology or related fields are encouraged to apply. We expect that applicants hold a university degree that qualifies them for doctoral studies at their recruiting organization.

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ESR10 will work on "Personalized health trajectories" with Antonio Artés at Universidad Carlos III de Madrid in Madrid, Spain.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

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Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/11> or scan the the code on the left with your smartphone.



ESR9 - FPS (Joaquin Dopazo)

Summary

ESR 9 will work on "Machine learning for the discovery of new functional and regulatory gene networks" with Joaquin Dopazo at Fundación Pública Andaluza Progreso y Salud (FPS) in Sevilla, Spain.

Supervisor: Dr. Joaquin Dopazo
Availability: This position is available.
Offered by: Fundación Pública Andaluza Progreso y Salud
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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ESR 9 will work on "Machine learning for the discovery of new functional and regulatory gene networks" with Joaquin Dopazo at Fundación Pública Andaluza Progreso y Salud (FPS) in Sevilla, Spain.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

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Working conditions

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Recruitment process



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To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/10> or scan the the code on the left with your smartphone.



ESR8 - STACC (Jaak Vilo, Meelis Kull and Sven Laur)

Summary

ESR8 will be "Predicting patient trajectories and outcomes from national level data" with Jaak Vilo, Meelis Kull and Sven Laur at STACC Ltd in Tartu, Estonia.

Supervisor: Prof. Dr. Jaak Vilo
Availability: This position is available.
Offered by: STACC
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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ESR8 will be "Predicting patient trajectories and outcomes from national level data" with Jaak Vilo, Meelis Kull and Sven Laur at STACC Ltd in Tartu, Estonia.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

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Working conditions

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Recruitment process



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To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/9> or scan the the code on the left with your smartphone.



ESR7 - University of Tartu (Krista Fischer)

Summary

ESR7 will work on "Methodology for discovery and validation of omics-based predictors for follow-up data in large population-based biobanks" with Krista Fischer at the University of Tartu in Tartu, Estonia.

Supervisor: Dr. Krista Fischer
Availability: This position is available.
Offered by: University of Tartu
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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ESR7 will work on "Methodology for discovery and validation of omics-based predictors for follow-up data in large population-based biobanks" with Krista Fischer at Tartu University in Tartu, Estonia.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

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Working conditions

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Recruitment process



The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/8> or scan the the code on the left with your smartphone.



ESR6 - Siemens Healthcare GmbH (Tobias Heimann and Volker Tresp)

Summary

ESR6 will work on "Clinical decision support for precision medicine" with Tobias Heimann and Volker Tresp at Siemens Healthcare GmbH in Erlangen, Germany.

Supervisor: Dr. Tobias Heimann
Availability: This position is available.
Offered by: Siemens Healthcare GmbH
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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ESR6 will work on "Clinical decision support for precision medicine" with Tobias Heimann and Volker Tresp at Siemens Healthcare GmbH in Erlangen, Germany.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

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Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/7> or scan the the code on the left with your smartphone.



ESR5 - Max Planck Institute for Intelligent Systems in Tübingen (Bernhard Schölkopf)

Summary

ESR5 will work on "Deep representations of somatic mutations and germline variants for cancer Research" with Bernhard Schölkopf at the Max Planck Institute for Intelligent Systems in Tübingen, Germany.

Supervisor: Prof. Dr. Bernhard Schölkopf
Availability: This position is available.
Offered by: Max Planck Institute for Intelligent Systems
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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ESR5 will work on "Deep representations of somatic mutations and germline variants for cancer Research" with Bernhard Schölkopf at the Max Planck Institute for Intelligent Systems in Tübingen, Germany.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

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Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



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To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/6> or scan the the code on the left with your smartphone.



ESR4 - Max Planck Institute of Psychiatry (Bertram Müller-Myhsok)

Summary

ESR4 will work on methods for subtype detection in high-dimensional data with a special focus on longitudinal data with Bertram Müller-Myhsok at the Max Planck Institute of Psychiatry in Munich, Germany.

Supervisor: Prof. Dr. Bertram Müller-Myhsok
Availability: This position is available.
Offered by: Max Planck Institute of Psychiatry
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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ESR4 will work on methods for subtype detection in high-dimensional data with a special focus on longitudinal data with Bertram Müller-Myhsok at the Max Planck Institute of Psychiatry in Munich, Germany.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

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Working conditions

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Recruitment process



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ESR3 - University of Liege (Kristel Van Steen)

Summary

ESR3 will work on "Comparison of heterogeneous or uncertain network structures" with Kristel Van Steen at University of Liege, Belgium.

Supervisor: Prof. Dr. Dr. Kristel Van Steen
Availability: This position is available.
Offered by: University of Liege
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

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ESR3 will work on "Comparison of heterogeneous or uncertain network structures" with Kristel Van Steen at University of Liege, Belgium.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

All researchers will be enrolled in PhD programs, so they need to have a university degree that qualifies for PhD studies at the organization they apply to.

Candidates with a biological or medical background, without or with little mathematical background, are also encouraged to apply. Upon recruitment, mathematical preparation plans will be organized for these candidates where needed.

Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/4> or scan the the code on the left with your smartphone.



ESR2 – ETH Zürich (Gunnar Rätsch)

Summary

ESR2 will work on “Treatment optimisation with patient state Representations and inverse reinforcement learning” with Gunnar Rätsch at ETH Zürich in Zürich, Switzerland.

Supervisor: Prof. Dr. Gunnar Rätsch
Availability: This position is available.
Offered by: ETH Zürich - INFK
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

The Marie Curie Innovative Training Network "Machine Learning Frontiers in Precision Medicine" (MLFPM) brings together leading European research institutes in machine learning and statistical genetics, both from the private and public sector, to train 14 early stage researchers. These scientists will develop and apply machine learning methods to health data. The goal is to reveal new insights into disease mechanisms and therapy outcomes, and to exploit the findings for precision medicine, which hopes to offer personalized preventive care and therapy selection for each patient.

Besides working on their project at their home institutions, the researchers will participate in network-wide training events like summer schools and retreats. Moreover, they will conduct two secondments of three months each at other network partners.

Applicants with a background in Computer Science, Mathematics, Engineering, Medicine, Biology or related fields are encouraged to apply. We expect that applicants hold a university degree that qualifies them for doctoral studies at their recruiting organization.

MLFPM is striving for diversity. In particular, we are committed to increase the percentage of female scientists and therefore especially encourage them to apply.

ESR2 will work on “Treatment optimisation with patient state Representations and inverse reinforcement learning” with Gunnar Rätsch at ETH Zürich in Zürich, Switzerland.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

All researchers will be enrolled in PhD programs, so they need to have a university degree that qualifies for PhD studies at the organization they apply to.

Candidates with a biological or medical background, without or with little mathematical background, are also encouraged to apply. Upon recruitment, mathematical preparation plans will be organized for these candidates where needed.

Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



To get more information or to apply online, visit <https://h2020mlfpm.glowbase.com/positions/3> or scan the the code on the left with your smartphone.



ESR1 - ETH Zürich (Karsten Borgwardt)

Summary

ESR1 will work on "Machine Learning for Biological Network Analysis" with Karsten Borgwardt at ETH Zürich in Basel, Switzerland.

Availability: This position is available.
Offered by: ETH Zürich - BSSE
Application deadline: Applications are accepted between December 18, 2018 00:00 and January 15, 2019 23:59 (Europe/Zurich)

Description

The Marie Curie Innovative Training Network "Machine Learning Frontiers in Precision Medicine" (MLFPM) brings together leading European research institutes in machine learning and statistical genetics, both from the private and public sector, to train 14 early stage researchers. These scientists will develop and apply machine learning methods to health data. The goal is to reveal new insights into disease mechanisms and therapy outcomes, and to exploit the findings for precision medicine, which hopes to offer personalized preventive care and therapy selection for each patient.

Besides working on their project at their home institutions, the researchers will participate in network-wide training events like summer schools and retreats. Moreover, they will conduct two secondments of three months each at other network partners.

Applicants with a background in Computer Science, Mathematics, Engineering, Medicine, Biology or related fields are encouraged to apply. We expect that applicants hold a university degree that qualifies them for doctoral studies at their recruiting organization.

MLFPM is striving for diversity. In particular, we are committed to increase the percentage of female scientists and therefore especially encourage them to apply.

ESR1 will work on "Machine Learning for Biological Network Analysis" with Karsten Borgwardt at ETH Zürich in Basel, Switzerland.

Recruitment requirements

At the time of their recruitment, candidates must be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.

Moreover, candidates have to fulfill the mobility condition: they must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting partner for more than 12 months in the 3 years immediately before the recruitment date.

All researchers will be enrolled in PhD programs, so they need to have a university degree that qualifies for PhD studies at the organization they apply to.

Candidates with a biological or medical background, without or with little mathematical background, are also encouraged to apply. Upon recruitment, mathematical preparation plans will be organized for these candidates where needed.

Working conditions

All beneficiaries will be full-time employed at their institution. Special family situations might qualify for part-time employment. The researchers are expected to conduct two secondments of three months each at other network partners.

Recruitment process



The board of the network will evaluate all applications, and the top-ranked candidates will be invited for interviews.



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